



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TC 1700

In re Application of:

Gyanesh P. Khare

Serial No.: 10/021,982

Group Art Unit: 1764

Filed: November 28, 2001

Examiner: James Arnold, Jr.

For: DESULFURIZATION AND NOVEL SORBENT FOR SAME

## Rule 131 Declaration

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

- 1. I, Gyanesh P. Khare, the inventor of the above-referenced patent application, make this declaration to establish actual reduction to practice of the claimed invention in the United States on a date prior to August 25, 1999, which is the effective date of U.S. Patent No. 6,254,766, to Sughrue et al. (hereinafter the "Sughrue '766 Patent") under 35 U.S.C. 102(e). The Examiner in the Office Action dated May 7, 2003 cited the Sughrue'766 patent.
- 2. Attached hereto is Exhibit A. Exhibit A is a collection of laboratory notebook pages prepared prior to August 25, 1999. Exhibit A evidences acts constituting conception and reduction to practice of a claimed invention. We do not wish to disclose the dates of these materials; therefore, the actual dates have been

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blocked out in Exhibit A. The acts evidenced by the materials of Exhibit A were performed in the United States prior to August 25, 1999.

3. The first four pages of the laboratory notebook disclose the method of making of a composition containing silica, alumina, zinc oxide, sodium silicate, and nickel. A mixture comprising alumina, silica, zinc oxide, and sodium silicate was dried, calcined, and then impregnated with nickel nitrate. The composition is then impregnated with a sodium silicate solution. The fifth and sixth pages disclose reducing the composition with hydrogen.

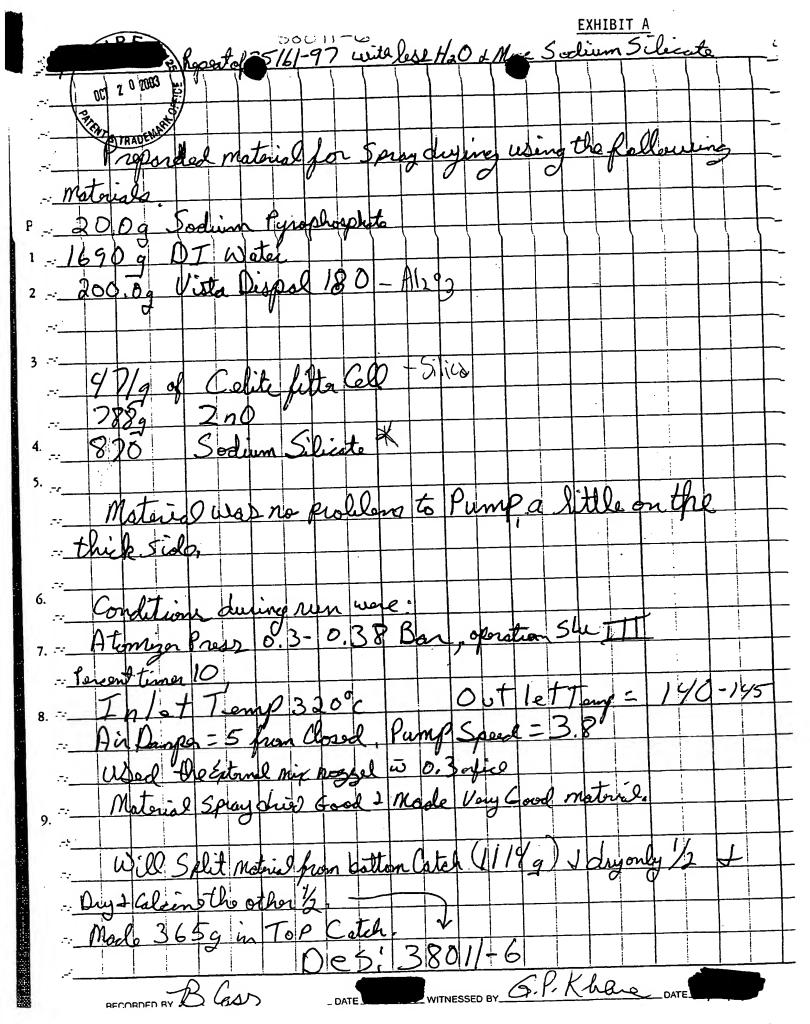
I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.

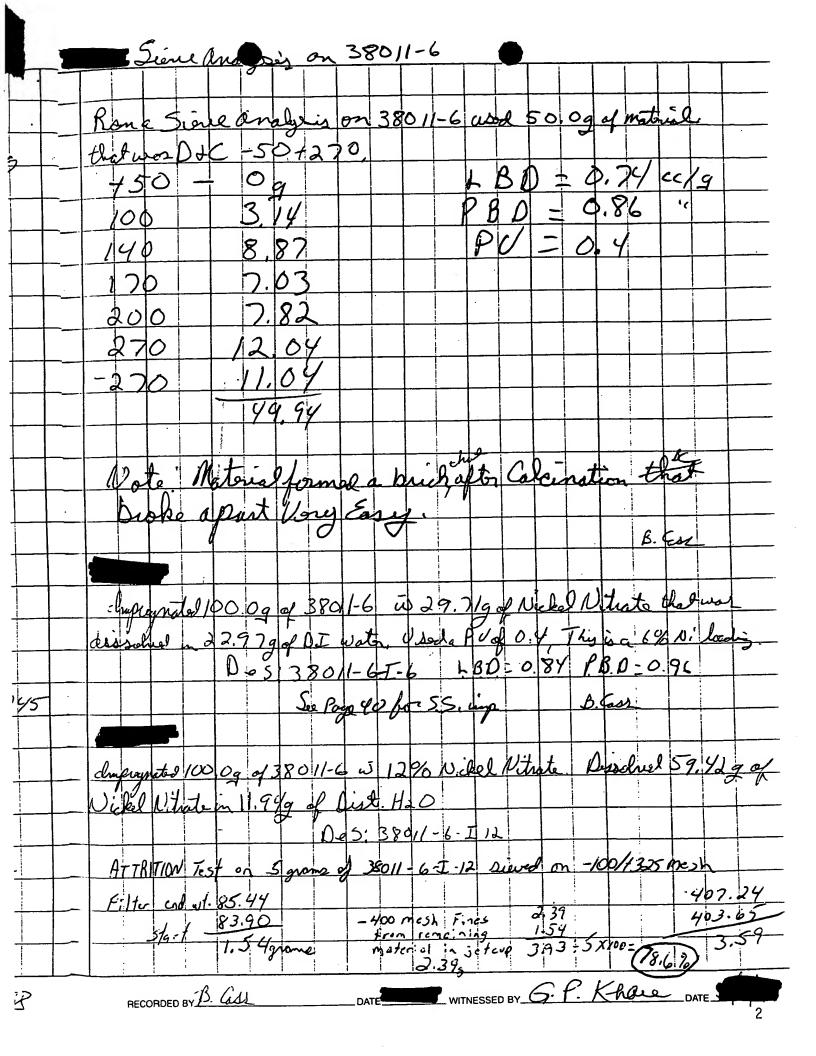
Gyanesh P. Khare

October 7, 2003

Date

Attachment

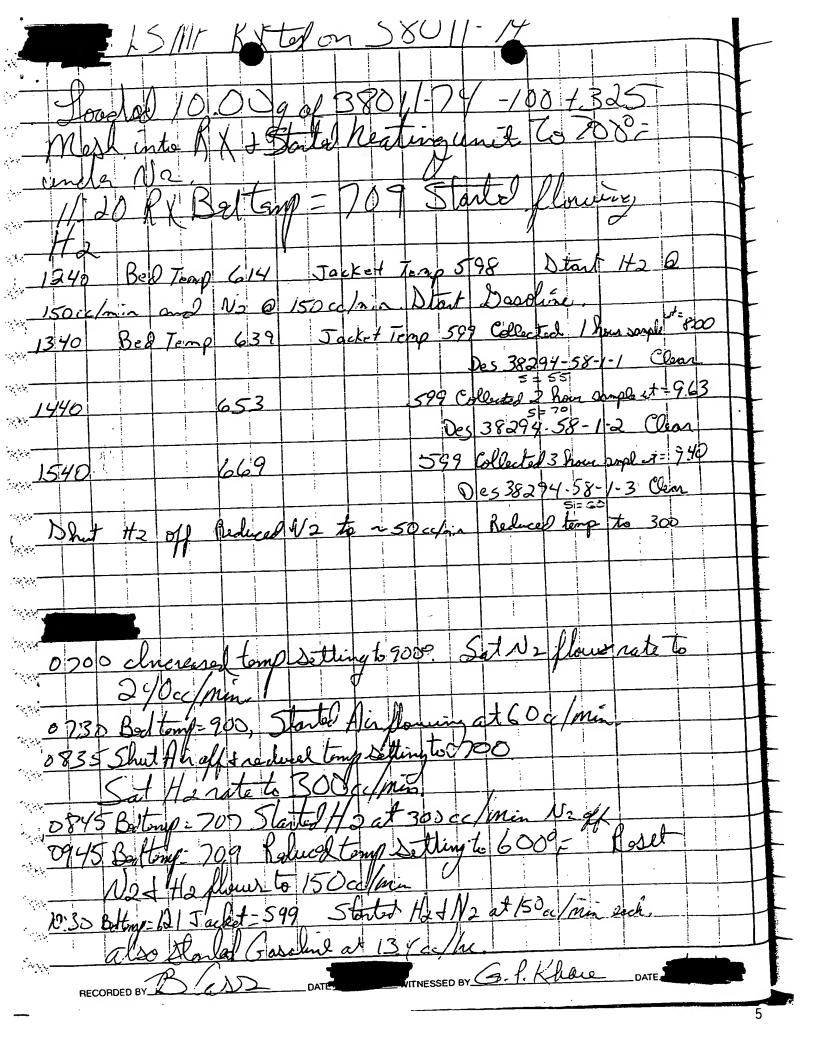




-6I-6 is Solven Selveste frequetion of 3 Usan the Some Tak atomizer to impregnate 50.09 of 300 % with 29,2% 5,02 lia Stant 50/min to 120°C hold 2 ms than Shut off Hritian Taston 009 dy -100 +325 15 Jet Cap Stating wt 6 = 408. 799 material Studence the Dan EWITNESSED BY G-P. Khare RECORDED BY

11-40 with 24% N for total of 30% N. impregnated 24 grams of 38011-40 with a solution of 14.26 grams of N: (NO3)2.6 H2O and 3,27 grams of did 1420.

It put material in oven and ramped the temp 3°C a min
to 150°C and held I have I then ramped the temp to 3°C to 635°C and held for I how 11-3-98 Dorald Engelbet d impregnated above noterial (26.88 grams) a solution of 15.97 grams of N: (NO3) = 6 H20 and I grams of died 40 Dried and Colcined some as above. Des 38011-74. 11-4-98 Donald Engellet Davison Index attrition 3 est on 38011-74 I loaded 5 grams of 38011-74 sieved on -100/+325 MESH Filter ending weight = 84.83 | Jet cho anding weight = 408.30 starting weight = 8419 of sieved remaining material in Jet cup on 400 ment There was 16 greensons - 400 mest 80 = 5 X100 = 16% RECORDED BY Small Engellet DATE WITNESSED BY ST-P. KROKE



17: Jack 1= 599 Co Collected 3 hr Sough wt = 9.79 300 ut 9.20 Clea =694 real trup setting to 150°C B. Care resultang botting to 900° Set N2 10:90 RECORDED BY B. Carl 8